



FINAL REPORT ON THE AUTOMATED LEGAL RESEARCH SURVEY

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FOR

AUTOMATED LEGAL RESEARCH INTERAGENCY PLANNING COMMITTEE

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Report on the Automated Legal Research Survey

For The Automated Legal Research Interagency Planning Committee

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Introduction

Section 1-601 of Executive Order 12146 requires that

"The Attorney General, in coordination with the Secretary of Defense and other agency heads shall provide for a computerized legal research system that will be available to all Federal Law offices on a reinbursable basis."

The Attorney General delegated the implementation of Section 1-501 to the Justice Management Division. The Attorasted Legal Sessenth Interagency Flamming Committee (ALSTC) was created to provide the interagency coordination required by the order. The primary tasks are to study the Automated Legal Research (ALS) needs of the federal government and to make recommendations for a federal ALS system.

In order to properly fulfall these tasks, the ALRIPC decided to survey potential federal ALR users. The design and execution of the survey was delegated to Federal Legal Information Through Electronics (FLITE), which had two members on the ALRIPC as representatives of the Department of Defense.

FIITO Obtained from the Office of Personnel Management a tape containing the names of federal employees with a salary greater than \$17,000 from the following occupational series: Personnel Management and Industrial Relations (Sch-2013), Accounting and Rodget (Sch-2033), Legal (Sch-20X3), Danisses and Industry (Sch-1120). Tach twoord contained only the content of the Scheme Content of the Scheme Content of the Scheme Content codes, and manager theory and scheme years of the address, occupational

FIRTS selected from this tape all <u>managers</u> in attorney positions and, on a randow hasks, one-half of the manager from other occupations deemed to have some probability of requiring legal research. Occupations were chouled from each of the series described above. In addition, a questionmaire was sent to each U.S. Attorney's office and to Military legal offices from each service. A total of 502 juestionmaires was sent; 1643 on atorney managers (970 civilian and 673 military) and 1980 to nonattorney managers (all civilian).

Only one response was requested per office since many of the questions requested counts and other information with regard to the office as a whole, and duplication was to be avoided. Printed guidelines as to the definition of "office" were provided, and further guidance was provided over the telephone.

The questionnaires were mailed during the first two weeks of January, 1982 and responses were tabulated through the middle of March, 1982. A brief follow-up questionnaire was sent to those from whom no response had been received in order to determine, wherever possible, the reason for not reasondine.

Five hundred eighty-three questionnaires were excluded from the sample for a variety of reasons, including the following most common circumstances: questionnaires returned to FLITE undeliverable (141), questionnaires nisrouted and never received by the addressee (213), duplicate questionnaires received in one office (183).

55.6% (1691) of the remainder responded to the survay. Of the responses, 37.7% (637) indicated that their offices did not require legal research and 9.4% (159) indicated that their offices require legal research but would not use ALR. The remaining 52.9% (895) reported potential ALR users in their offices.

Only respondents reporting potential users in their offices were requested to complete the questionnaires, and only their questionnaires were included in the computer analysis. Completed questionnaires were received from 55 different despartments and independent ascencies.

The questionnaires were extensively edited, both visually and by computer, and a lengthy series of statistical reports were produced. This report is an attempt to summarize and highlight the most significant results in a more easily accessible form. A great deal more information exists in the computer analysis which it is impractical to include here.

II. Patterns of Current and Potential ALR Usage

A. Number of Users

Of those selected for the survey, 100^2 indicated that their offices require legal research. Of this group, 85.68 (842) extend that their offices would make use of on ALR system, essuming access to a system containing the relevant legal materials.

The completed questionnairs 3 gave the number of potential wers in auch office by occupational earter. Approximately 73.1% were from the lags series (including copyright, pstems, and trademark - 2.1%). The next highest percentages were from accounting and budget (8.7%), personnel management and industrial relations (8%), and business and industry (3.3%). The last group includes careers in procurement and contract management.

Footnote 1

The high nate of maling problems was probably caused by the following factors: the address information on the tape was somewhat out of date; the address specified was often a certail personnel office, which would then have to forward the questionneite to the addresses; there were an unusual number of reorganizations and reductions.—in-chose shore the tape was orecast.

Footnote 2

895 questionnaires completed in time for computer processing, II questionnaires completed too late for processing, 36 follow-up questionnaires indicating a need for legal research and an interest in Alt Net an unufiliaringes to participate in a survey, 159 follow-up questionnaires indicating that their offices need legal research but and only in which or of the control of the co

Footnote 3

The statistics for the balance of this report refer only to the 895 completed questionnaires which were the subject of the computer analysis.

B. Number of Searches

The respondence were asked to estimate the number of searches during the preceding year which they either performed themselves on a terminal or requested to be parformed by a service center. Despite the fact that all of these offices had poole interested in using ALR, and y5.4% recorded searches.

Of offices having searches, the average number per potential user was 1.2 in offices without access to a terminal, 12.8 in offices with access to a terminal located outside the office, and 20.1 in offices containing a terminal

These ratios indicate a strong correlation between usage and access to a terminal and an even stronger correlation between usage and convenient access, that is, where a terminal is located in the immediate office. These figures must be used with caution because they are based on estimated searches (very few offices keep records of searches) and the estimates are most inaccurate in the offices with the largest number. Furthermore, it may be that the offices that obtained terminals had a more frequent need for research than other offices. Nevertheless, the differences in searches per user are so great that the existence of a correlation between usage and terminal access scems almost certain. Furthermore, its existence is supported by the fact that 61.1% of all offices indicated that installing a terminal in their offices would be very or extremely significant in increasing their ALR usage and by the statistics indicating that users of on-line systems make more frequent use of the system than users of FLITE, a batch system. cautionary note, it should be mentioned that the survey did not investigate the types of searches done on batch systems versus those done on-line. Most FLITE searches are on subjects and issues whereas other information has suggested that a major use of on-line systems is for very simple tasks like shepardizing so that the usage work load may not be as different as the numbers of searches suggests.

offices were also asked to project their annual searches over the next three years amounting occas to an AR system. The average number per potential user was 19.3 in offices without access to a traminal, 22.5 in offices without access to a traminal, 22.5 in offices without access to a traminal, 22.5 in offices with occas to a traminal located outside the office, and 28.5 in rate of actual searches per user during the properties of actual searches access to a traminal containing a certainial (421). It season likely conveniently located terminal. If this as further than the properties of t

Footnote 4

Although Filts was mentioned in the questionmains as an example of a service center, the respondents could have contemplated any office having AIR experts who pretom research for presons from other offices, including the JURIS user assistance staff or an agency library. The same consideration applies to any of the questions and data that nefet no service centers.

Footnote 5

A batch system is one in which searches are processed off-line rather than in an on-line, interactive mode.

The fact that only 54.4% of offices interested in using ALR actually teported searches during the preceding year and that offices which reported searches during the past year projected much higher numbers for future years indicate a tramendous potential for growth in ALR usage.

C. Distribution of Terminals

Only 33.4% of the offices had access to an ALR terminal and only 13.3% had a terminal in the office. The considered in the light of the atrong correlation between usage and terminal access, these percentages indicate an ewen greater potential for growth in ALR usage if terminals are more widely distributed.

63.2% of offices with terminal access share terminals with other offices. The average number of terminals to which offices have access (not necessarily at one location) is 2.1.

58.4% have access to JURIS, 50.9% to LEXIS, 16.1% to WESTLAW, and 14.6% to some other ALR system. 7

23.3% of <u>all</u> offices reported terminals used for non-ALR applications such as word processing. This is a potential resource which could be used for systems like JURIS and WESTLAW which can be accessed through a number of standard terminals.

D. Use of Particular Systems

The approximate number of persons in the surveyed offices who have used one of the four leading systems and the percentages of petential users in those offices are as follows: LEXIS - 2779 (25.5%), JURIS- 2310 (21.2%), FLITE - 1920 (17.6%), WESTLAW - 501 (4.6%). Apparently there is significantly lass familiarity with WESTLAW than with the other systems.

Again, these figures indicate important growth potential, particularly since there is doubtless some duplication between the percentages (representing people who have used more than one system) and because the percentages represently include people who may be access to the Address to the contract of the percentages of the contract o

Footnote 6
See Figure 7 for a detailed breakdown on location of terminals.

Footnote 7

FOUNDER! E.G., DIALOG, REG-ULATE, LEGI-SLATE as well as agency in-house systems. 3.9% of all offices revorted that their agencies had their own systems. On the average there are 6.8 potential users in an office containing people who have used FILTS. He malogous figures for the other systems are as follows: JURIS - 15.9, LEXIS - 19.4, MSTLAM - 12.4. One must be cautious in interpreting these figures, since the presence of people who have cautious fine the presence of the people who have these differences in the average fine of the office my be related to the costs of the various systems. One would expect the smallest offices not to have terrainals but to make use of the FILTE batch system, and the largest offices to make use of less of the FILTE batch system, and the largest offices to make use of less of the WSTLAM offices may be accurately JURIS and JURIS. The intermediate overage size of MSTLAM offices may be accurately formed to the state of the FILTE batch and the system of the

In offices containing persons who have used FLITE, an average of 58.8 of the potential users in the offices have used the system. The onalogous percentages for the other systems are as follows: JURIS - 52.07 LLKIS - 46.89, WRITLAW - 32.38. One can specialtee that these differences may relate to case of learning the systems. FLITE, with the highest percentage, requires no insolving of the systems by the end-user. LLKIS and JURIS - 42.01 has year-fieldedly features, are easier to learn than WRITLAW - 12.01 has present a family factors, are easier to learn than WRITLAW - 12.01 has the reasons.

The percentages of system users who have used the system more than ten fises are; JMETS - 40.3; MEXTS - 4.3; MEXTS 4.3 33; MEXTS 4.3 37; MEXTS 4.3 32; MEXTS

It is difficult to speculate as to why the frequency of WESTLAW use is lower than for the other on-line systems. Some possibilities are that offices that use WESTLAM wheeless intense research needs than offices using LEXIS or JURIS, that users are somewhat lass satisfied (see below), or the mere fact that WESTLAM is a newer system.

Users of each system were asked to characterize the research results as "excellent," "good," "fair, for "poor." They were also asked to characterize use of the system as "very easy and efficient," "moderately easy and efficient," "solverstely easy and efficient," solverstely difficult, frustrating, or inefficient," or "very difficult, frustrating, or inefficient," or "very difficult," the state of the sta

The level of satisfaction with all of the existing systems seems quite high, as indicated by the percentages of users rating the research results good or excellent and the system moderately or very easy and efficient to use (see Figures 2 and 3). Satisfaction with LEXIS appears to be somewhat higher than with the others.

Footnote 8

For greater detail, see FLITE comparison of JURIS, LEXIS, and WESTLAW.

The percentages rating research results poor or system use as vary difficult, frustrating, or inefficient were in the 2 - 7% range except with respect to MESTIAN, for which 16.6% rated research results as poor. This negative result could be discounted by the fact that is was caused by the response from one large U.S. Attorney's office. The respondent did not ready to the country of the control of the country of the country

The most common complaints with respect to FLITE were difficulty of access by Autovon (a DOD telephone system) and time required for receiving results in the mail. Most of these complaints were from overseas locations. The comments on the other systems were too various to characterize.

No statistics were compiled as to other systems, but it is worth moting that in addition to DiALOG, LEGI-SHATE, and RED-HATE, the survey came across the following Alk systems (source of the questionmairs is in parentheses): Computer-added Environmental Legislative back System (CELDS) (Army), ARCA - dealing with transportation law (Army), LEGI-CON, FITC (ARMS), ARCA - dealing with transportation law (Army), LEGI-CON, FITC Legi-Research System - internal memos and reports (FTC), Indual- Indian Law (Interior), Allex - legislative history of Alaska Maxisonal Lands Conservation Act (Interior), Coalex - legislative history of the Surface Mining Act of 1977 (Interior), Legal Information Retrieval System (LEGS) - MAGA legal optimum (SAMS), and an unmanded system containing Department of Transportation

Proliferation of agency ALR systems appears to be a continuing trand. Periodically PLHIZ receives information resources from agencies planning new systems; requests were received from at least two agencies in August, 1982 alone. The problem with this approach is a duplication of effort and agence and the difficulty of any other federal agency in making use of these data

III. Attitudes Toward ALR

The survey disclosed very little negative feeling towards ALR generally. Only 4% to 8% of the respondents stated that factors like a lack of confidence in ALR, difficulty in learning and using ALR systems, unsatisfactory research results, and lack of time savings were very or extremely important in inhibiting ALR usage (see Figures 4.1 - 4.2 for a complete graph of factors and percentages). Conversely, more than half of the respondents with ALR experience indicated as very or extremely important factors motivating their ALR usage that ALR saves time (62.8%), provides more comprehensive results (53.1%), and is more cost effective (51.3%) than manual research (see Figure 5 for a complete graph of fectors and percentages). What might be called "necessity" factors, such as the lack of an adequate library or the lack of manual research aids for a particular legal source or problem. though significant, were leas so than the above. With regard to libraries, several comments indicated that the ability to achieve savings by reducing the materials maintained in the office library would be a factor motivating ALR nee.

Footnote 0

The questionnaire comments have been printed separately in order of question number.

These positive attitudes toward ALR tie in with results already discussed; namely, the high percentage of offices interested in using an ALR system and the high level of satisfaction among users of existing systems. IO

The most significant factors inhibiting ALR usage were lack of information concerning ALR and logistical factors such as costs, time required to receive moiled printouts, having to go through a service center (the connents indicate telephone access and neiling times as primary problems with this kind of service), and inconvenient terminal locations. The only significant inhibiting factor relating to the substantive nature of the ALR system was "insufficient data bases." Even as to these factors, the percentages indicating that they were very or extremely important were much lower than the percentages rating motivating factors as very or extremely important. The highest was "cost of service" at 36.5%.

In addition to rating inhibiting and motivating factors, respondents also rated the probable effect of certain actions on ALR usage. As discussed above, the most significant action was installing a terminal in the office, with 61.1% rating it as very or extremely significant in increasing usage (see Figure 6). This percentage may even be understated since persons who already have a terminal in the office may not have rated the factor high,

There is a big drop to the next most significant factor, "increasing the number of data bases" (40.3%). The comments indicate that in addition to the scope of data bases, timeliness is also an important concern. At least one of the comments pointed out that unless the data base is both timely and comprehensive, the complete job cannot be done on the system; the researcher has to do manual research to fill the gaps, with considerable loss in efficiency.

"Decreasing costs" was the third most significant factor, with 38.3% indicating that it would be very or extremely important. This response, in conjunction with the fact that costs were rated the most important factor inhibiting ALR usage, confirms the significance of cost considerations. In fact their importance may be greatly understated; at least six of the respondents indicated that they rated costs as insignificant because the service was paid for by another office. This aituation applies to many more surveyed offices than those who took the trouble to comment upon it: 91.3% of the completed questionnaires reported no ALR costs although 54.6% reported searches. The funding officials are likely to be much more concerned with costs than the "free" end-users.

IV. Preferences of Potential Users

A. Format and Timeliness of Results

On the average, offices reported that they desired a printed copy of search results 63.3% of the time. For the belance of their searches a terminal Footnote 10

There may be some bias in these results because the group who did not respond to the survey may include a higher percentage of people with negative attitudes toward ALR.

display was considered sufficient. 22.8% of the respondents indicated that a method of printing results of terminal searches stirbut having to display them on the acreen would be very or extremely significant in increasing ALB wasge, and an additional 21.7% considered such a feature moderately significant.

The respondents were eaked to estimate the percentages of their searches for which the various types of output format unull be preferred. The formats and the averages of the responses are as follows: citation only - 13%, with headnotes - 18.5%, citation with both XMC excerpts and headnotes - 23.5%, full text - 23.5%. Thus, on the average, more than the citation is desired for 57.7% of the searches. When the percentage for the conditation of excerpts and headnotes is edded to the respective percentages for headnotes included in 4.4% of searches, and the amount is true for KMC exerpts.

There is a significant, but not critical, concern for improving timeliness of results, both on-line and off-line. 33.53 of offices indicated that "providing feater results from the service center" would be very or extremely significant in increasing usage and an additional 2.12 fooles "moderately significant." The analogous figures for "improving speed of searches performed on a terminal" were 31.7% and 20.9%, respectively. Similarly 23.6% indicated the time to receive mailed printouts as a very or extremely important inhibiting factor, and 17.3% as a moderately important factor.

The respondents were maked to indicate the percentages of their search results that are required within stated time finervals. The intervals and the average responses are as follows: least than 1 bour - 11.3%, 1 to 4 hours - 13%, my time during the same day - 20.3%, by the ment sorning, -14.3%, 2 to 4 hours - 13%, may time during the same day - 20.3% by the ment sorning, -14.3%, 2 to 4 hours - 13%, and the same day - 13% by the ment sorning, -14.3%, 2 to 4 hours - 13% by the same day - 13% by the same

B. Service Center vs On-Line Service

The respondents were asked to estimate the percentage of their offices' searches which they would prafer to perform themselves on a terminal and the percentage they would prafer to have performed by a service center. The averages of the responses were 66.72 and 33.3%, respectively.

On the average, respondents indicated that telephone consultation with an ALR expert would be desired for 25.4% of all <u>terminal</u> searches. In addition, 50% of the offices indicated that telephone consultations concerning ALR search techniques would be a very or extremely useful service with another 29% indicatine "moderated" useful.

Footnote 11
Because of the strong correlation between estimated number of searches and the presence of a terminal.

The percentages for consultations and for use of a service center are lower when weighted by the estimated number of searches in the preceding year. From this difference one can infer that offices with a large number of searches, typically performed on a terminal, are likely to use a service center or congult an outside Alia expert less frequently.

These figures further reinforce the prior conclusions relating number of searches to access to an on-line system. Nevertheless, they also show continuing need for a service center, both to perform searches directly and to advise users on their own on-line searches. The two functions are closely related since the best advice is likely to be given by persons with extensive experience in searching.

Other survey results, some of which have been discussed in other connexts, support the need for a service center was indicated by 24.36 of the offices as having a very or extremely significant effect on All suspea and by 19% as having a noderately significant effect on Significant percentages reported that their offices were too small to justify an ALR reminal and that the cost of ALR was a significant inhibiting factor. On the average, offices can wat two or more days for remults of 40% of their searches not that timeliness considerations frequently do not prevent use of a service center, even without improvements in distribution of results. The properties of the service of the service

C. Terminals: Number, Location, and Operation

When asked how many terminals would be required to provide adequate ALR service to their immediate offices, only 14% gave a response greater than"1; 74.6% answered "1", 7% enswered "9", and 4.4% Left the answer blank (see Figure 8 for a further breakdown). Thus a single terminal appears to be the standard requirement.

Where an organization requires more than one terminal, other survey results indicate that the preferable stratesy would be to disperse them rather than to put more than one terminal in a single location. The statement, "the terminal which can be used by your office is at an inconvenient location" was rated as a "very or extremely" important factor inhibiting ALR usage by 15.4% of all offices. The importance of this percentage may be magnified by the fact that only 33% of all offices had access to a terminal and only 19.7% had access to a terminal that was not located in the immediate office. Thus 15.4% is a large proportion of the group to which the question was applicable. Furthermore the estimated number of searches divided by the number of potential users in offices with access to a terminal located outside the office is only 64% of the number of searches per potential user in offices containing terminals. These figures indicate that maximum use would be attained by minimizing the distance between users and terminals rather than concentrating several terminals in a terminal room or library. After all, one of the reasons people use ALR is to avoid trips to a library (see Figure 5).

Several questions addressed the operation and functioning of terminals. The following are possible ALX improvements and the percentages of offices rating them very or extremely significant in increasing ALX usage or moderately

significant:		
	Very or Extremely Significant	Moderately Significant
Simplifying terminal operation	26%	23.5%
Improving the speed of terminal searching	31.7%	20.9%
Adding new kinds of search commands	24.3%	28.1%

In order to avoid complicating an already lengthy questionnaire, no attempt was made to evaluate particular search functions and commands, but the comments mentioned the following: implementation of Shepards and the "foll" (secrall) key on JUNIS, a way to abort a screen display, a way to limit the words KWICed and highlighted on LEMIS.

"The frequency with which the system or terminal is out of service" ranked relatively low as a factor imbitries gall usage with 10.9% of all offices rating it very or extremely important and monther 12.1% rating it moderately important. When weighted by the number of parsons in the office who have accually used one of the major on-line systems, the parcentages was broken to the contract of the c

are arguer.	Very or Extremely Important	Moderately Important
Weighted by number of LEXIS users	15.4%	4.7%
Weighted by number of JURIS users	24.7%	11.3%
Weighted by number of WESTLAW users	24.3%	11.4%

These statistics suggest that UNIS and WESTLAW users may be more concerned about down-rise than LEXIS users, but one can not make such an inference with any degree of confidence because a single office often contained people with eventience on different systems and only one response was given par office.

D. Data Bases

The questionnesses included a list of 109 possible data bases. For each tabase, the respondents were asked to tircle a number from 1 to 5 indicating that the material was "not useful," "slightly useful," "moderately useful," "very useful," or "extressely useful in the timediate offices. Figures 10.1 - 10.11 rank these data bases in order of the percentage of questionnesses election that the second of the percentage of questionnesses election that the second of the percentage of a post of the percentage of a percentage of

the Military Justice Reporter may be of prime importance to a particular group of users and of absolutely no value to others. Such a data base will rank higher in Figure 10 then in Figure 11. The former relates to the percentage of offices that place a strong value on a data base, whereas the latter takes into account the distribution among all responses.

When looking at the rankings it is important to know that although they reflect the responses of \$5 agencies, the responses were not evenly distributed among those agencies. For example, the low ranking of Security and Exchange Commission Decisions and Reports is probably partially a result of the fact that only one response was received from the SEC. On the other hand the response rate may be some indication of the agency's interest in participating in a federal ALR system, although the vicissitudes of mailing and forwarding the questionnaires prevent any certainty on this account. The agencies with the largest number of responses are the following: Army (197). Air Force (194), Navy (93), Justice (73), VA (57), Treasury (47), Defense (25), Health and Human Services (24), Energy (17), Transportation (17), Commerce (15), NASA (13), Agriculture (12), FCC (11), and Interior (10). See Figure 1.

It is clear from the results that a large expansion of data bases is desired. This conclusion is also supported by the number of respondents indicating that the lack of certain data bases was an important factor in increasing usage (see discussion supra, p 8). Many of the requested data bases are available on one of the ALR systems, but others are not currently available on any system. In fact some of the questionnaires requested data bases not included in the list of 109.12 The following are the percentages of offices requesting data bases not listed on the questionnaire by type of legal source: Regulations - 12.1%, Administrative Decisions - 7.7%, Secondary Sources - 7.5%, Legislative - 5.4%, International Agreements - 3.5%,

Court Decisions - 3.4%.

Actual decisions on adding data bases will have to take into account factors other than user preferences including the size of the data base, the availability of photocomposition tapes, and, for specialized data bases, the number of persons in the relevant agency who are likely to subscribe to the ALR system. Some data bases that may not be justifiable on-line may be maintained for searching in a batch mode. Another possibility is to have some data bases share on-line storage devices in a rotation schedule so that they are searchable on-line part of the time.

A capability and willingness to add data bases of special interest only to a particular agency, together with efforts to publicize this policy among all agencies, may reverse the tendency toward proliferation of many in-house systems. Simply adding a data base to a general purpose ALR system should be much less costly, permit more widespread use of the product, and permit the agency to access other data bases in addition to its specialized data base.

Factuate 12

The specific suggestions have been reproduced separately in the report on the comments to the questionnaire.

E. Other Services

The respondents were asked to evaluate the usefulness of a number of services in addition to basic research service. The graph of these results in Figure 9 requires no comment other than to conclude that all of the listed services were favorably received, suggesting that any future ALR system should retain and enhance capabilities in these areas.

It is also worth noting that "providing more or improved training" was rated by 28,4% of the offices as very or extremely significant in increasing AIR wasge and as moderately significant by another 27.7%.

F. Funding Methods

The respondents were asked to rate four methods of funding ALR. These are the methods, in order of preference, along with the percentages indicating that the method would moderately or greatly encourage ALR usages.

- A working capital fund initially provided by Congress and replanished from the appropriations of the departments and agencies in proportion to their usage (53%)
 - (2) Payment in advance by the agency to which your office belongs (37%)
- (3) A services contract with monthly billing, funded out of your office's budget (13%)
- (4) Payment by purchase order for each individual request made to a service center (assuming that the research would be performed without waiting for the purchase order) (5%).

The percentages indicating that the respective funding methods would greatly discourage ALR usage are as follows (in the same order as above): 7%, 16%, 20%, and 52%.

Not surprisingly, there is a large drop in preference level between methods 1 and 2, which are not dependent on the immediate office budget, and methods 3 and 4, which are. These figures are supported by the fact that 33.75 of the offices identified 'difficulty in obtaining any funding for all and the state of the control of the funds (agency level or office level) appears to be of less concern. Only 8.2% indicated "buddenose procedures used for pumnific as a very or extremely important inhibiting factor and only 18.7% identified simplifying such procedures used. As well have a very or extremely become the control of the control

V. Summary of Implications for a Future System

 An on-line system will carry the bulk of the search load. At the same time, a service canter will continue to play an essential role, most likely

- in the following sress: (a) serving occasional users and non-lawyers (b) serving stormeys they prefer not to learn All techniques, (c) serving offices unable to have a terminal either because of size, lack of funds, or oversear location, (d) providing access to data bases not available on an office's system, (c) preferring unsweally complex or difficult searches, or office and the providing avice on search techniques to on-law users.
- 2. The service center should include a batch system, in addition to the on-line system(s) in order to search data bases whose frequency of use does not justify on-line status and to handle a high volume of searches efficiently. In the FILT experience, based on use of a batch system and all the leading ALR systems, it is impossible to operate a service center effectively and efficiently without both capabilities. Ideally, all data bases should be searchable by the batch system, and all frequently used data bases should be earchable on-line.
- 3. The efficiency of the entire system would be enhanced if the batch capability were extended to users in the field, so that they could enter searches on their terminals for batch processing. The majority of offices do not need "immediate" results for most of their research.
- 4. It would be destrable to permit access by as many types of terminals as possible, in addition to providing the option of a custom terminal, in order to take advantage of the large numbers of terminals already in the field.
- Where new terminals are added, it:is preferable to disperse them as widely as possible rather than concentrating them in one location.
- 6. The on-line system should incorporate improvements in search commands, apeed, and reliability.
- The on-line system must be capable of providing a hard copy of search results, including off-line printing of material without having to display all of it on the terminal screen.
- 8. Display and printing options should include headnotes, Key-Word-In-Context (XWIC) excerpts, the combination of the two, full text, and citations alone.
- The capability of electronic distribution of both off-line prints of on-line search results and the results of service center searches is highly desirable.
- 10. Telephone access to the service center must be easy and reliable, perhaps by use of an "800" number in addition to FTS and Autovon. The current reliance at FLITE on Autovon, FTS, and regular commercial lines is clearly not adequate for all users, particularly those who must rely on Autovon.
- 11. The capability of providing other services in addition to searching is highly desirable, including litigation support and the publication in microform of citators, indices, and unpublished decisions.

- 12. A considerable expansion in the number of data bases and improvements in timeliness of data bases are strong preferences of potential users.
 - 13. There is a need for more education, publicity, and training.
- 14. Funding at the agency level rather than by each user or office, expecially by a working capital fund, would maximize usage.
- 15. Perhaps the overwhelming implication for a federal AIR system is that it should plan for a tremendous growth in numbers of searches and tempinal. This growth will be shared in by the service center as well as by the on-line system; even under current conditions, FIUT'S: searches increased by 25% in 1981 and increased at an annual rate of 28% during the first seven months of 1982.
- 16. The extent to which this potential growth becomes a reality probably depends to a large degree on whether the preferences and needs listed above are met. The challenge to providers of ALR service will be to manage growth while improving service so that the full potential of ALR is realized.

Note on the Graphs

The numbers appended to the labels for the bars in Figures 4 through 7 and 9 through 11 refer to the question number from which the information was derived.



Responding by Agency of Offices Number

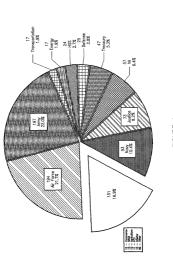
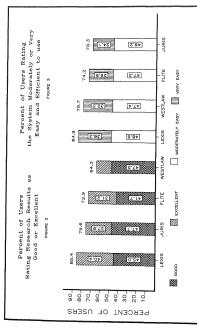
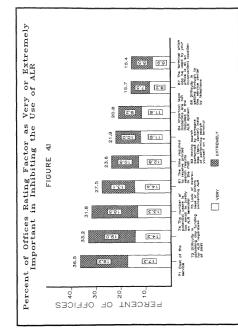
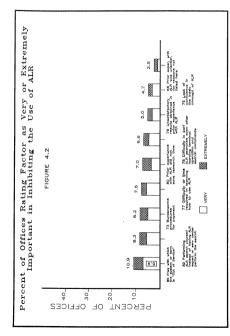
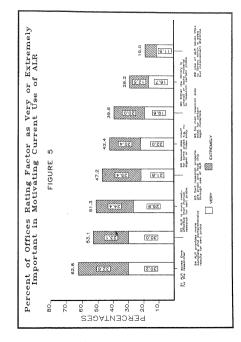


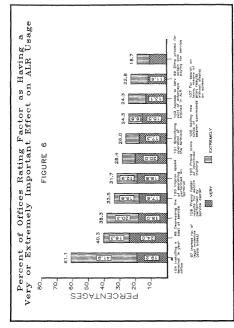
FIGURE 1













Percentage Breakdown of Offices by Number of Terminals Required

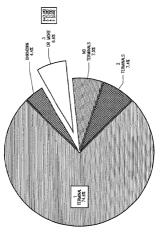
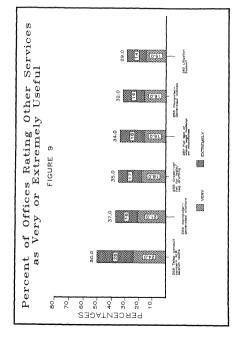
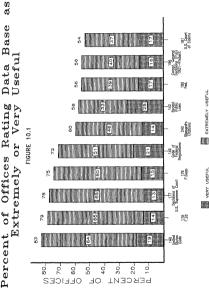


FIGURE 8



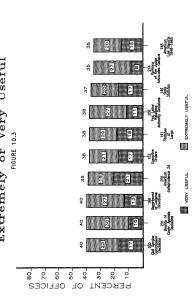
Base of Offices Rating Percent



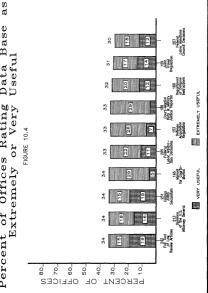
Base of Offices Rating Percent

as EXTREMELY USEFUL Pode Pode FIGURE 10.2 Extremely or WERY USEFUL 148 Federal Monual 80 20 20 10 PERCENT

88 Base Percent of Offices Rating Extremely or Very



Base Percent of Offices Rating Extremely or Very



හ හ Base Data E Useful EXTREMELY USEFUL E Percent of Offices Rating Extremely or Very FIGURE 10.7 WERY USEFUL 111 10 151 Federal Register Softwets PERCENT 0 0 0 0 0 0 0 0 20 6 OE

as Base o. 8 Data F Useful 10 01 EXTREMELY USEFUL 11 Percent of Offices Rating Extremely or Very FIGURE 10.8 : [2] 12 WERY USEFUL 12 7 5 7 8 9 6 OFFICES PERCENT OE

S Data Base Useful EXTREMELY USEFUL 9 Percent of Offices Rating Extremely or Very FIGURE 10.9 7 WERY USEFUL PERCENT

g 80 Percent of Offices Rating Data Base Extremely or Very Useful EXTREMELY USEFUL FIGURE 10.10 WERY USEFUL OFFICES 6 PERCENT. OE

